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*Relationships Between  $k$ -Gonal Numbers that Are Centered  $k$ -Gonal,  
and Lucas and Related Numbers,*  
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**Abstract**

Relationships between  $k$ -gonal numbers, centered  $k$ -gonal numbers and Lucas numbers, and between  $k$ -gonal, centered  $k$ -gonal numbers and Pell-Lucas numbers are explored in this paper.